

MODIS IOT Weekly Report

Mission Operations Days: 2000/099 to 2000/105

April 7, 2000 20:00:00 GMT to April 14, 2000 20:00:00 GMT

NOTE: The SCIABNORM Flag was NOT set during the four calibration slews on Thursday, April 13th. The data during the maneuvers is invalid. In addition, during the +10 degree roll (first maneuver), the temperature of the cold focal planes increased approximately 0.5K and took about 4 hours to return to nominal temperature.

Terra Spacecraft and MODIS Instrument Status:

Terra (AM-1) is in Normal Mode

MODIS is in Science Mode

MODIS has no known Anomalies

Blackbody	A On; B Off	Nominal
Calibration Electronics	A On; B Off	Nominal
Control Processor	A On; B Off	Nominal
Door: Nadir	Unlatched, open	Nominal
Space View	Unlatched, open	Nominal
Solar Diffuser	Unlatched, closed	Nominal
FDDI Formatter	A On; B off	Nominal
FIFO Memory	1 & 2 On; 3 & 4 Off	Nominal
Format Processor	A On; B off	Nominal
PC FPA	A On	Nominal
Power Supply: 1	On	Nominal
2	Off	Nominal
PV FPAs: VIS	A On	Nominal
NIR	A On	Nominal
SMIR	A On	Nominal
LWIR	A On	Nominal
Radiative Cooler:		
Outgas Heaters	Off	Nominal
LWIR FPA Heater	On	Nominal
SMIR FPA Heater	Off	Nominal
Scan Assembly	A On; B off	Nominal
SDSM	Off	Nominal
SRCA	Off	Nominal
Survival Heaters: PS1	Enabled	Nominal
PS2	Enabled	Nominal
Timing Generator	A On; B Off	Nominal
Flight Software	Rev BD	Nominal
Inhibit Ids Set	54 (SRCA)	Supsended SRCA activity
TMONs enabled	66,67	Nominal

This Week's Completed MODIS Activities:

Saturday, April 8, 2000

No Activities

Sunday, April 9, 2000

No Activities

Monday, April 10, 2000

101/03:23:29 ATC OA-15 SD/SDSM Open

101/05:02:22 ATC OA-16 SD/SDSM Screened

101/20:02:00 ATC Blackbody to 270K

Tuesday, April 11, 2000

102/14:00:00 ATC Blackbody to 315K

102/14:15:12 Real-time Set Blackbody duty cycle to 100%

102/22:00:00 ATC Blackbody to 270K

102/22:05:25 Real-time Set Blackbody duty cycle to 33%

Wednesday, April 12, 2000

103/08:07:27 ATC OA-16 SD/SDSM Screened

103/16:34:20 – 16:44:27 ***DATA LOSS***

103/19:00:00 ATC Blackbody to 290K

103/20:20 Drag Make-up Maneuver (26s burn)

Thursday, April 13, 2000

104/14:55:33 IRU Cal Slew (+10 deg Roll, duration = 00:23:40)

104/16:34:26 IRU Cal Slew (-10 deg Roll, duration = 00:23:40)

104/18:13:19 IRU Cal Slew (+30 deg Yaw, duration = 00:33:40)

104/19:52:13 IRU Cal Slew (-30 deg Yaw, duration = 00:33:40)

This Week's Scheduled MODIS Activities Not Completed:

None

Upcoming MODIS Events:

Friday, April 14, 2000

105/21:05:46 ATC OA-16 SD/SDSM Screened

Saturday, April 15, 2000

No Activities

Sunday, April 16, 2000

No Activities

Monday, April 17, 2000

108/20:02:00 ATC Blackbody to 270K

Tuesday, April 18, 2000

109/14:00:00 ATC Blackbody to 315K

109/14:00:00 Real-time Set Blackbody duty cycle to 100%

109/21:00:00 ATC Blackbody to 270K

109/21:00:00 Real-time Set Blackbody duty cycle to 33%

Wednesday, April 19, 2000

110/?? ATC OA-16 SD/SDSM Screened

110/19:00 ATC Blackbody to 290K

Thursday, April 13, 2000

No Activities

Friday, April 14, 2000

112/?? ATC OA-16 SD/SDSM Screened

Maneuvers:

Tue, April 25, 2000 - MODIS Yaw Maneuvers
Wed, April 26, 2000 - MODIS Yaw Maneuvers
Thur, April 27, 2000 - Inclination Maneuver
Fri, April 28, 2000 - Post-inclination Drag Makeup Maneuver

MODIS Anomalies:

None.

General Instrument Comments:

MODIS is in Science Mode on the A-side with the SVD and NAD open.

MODIS Telemetry Trends:

Telemetry is nominal.

Non-MODIS Significant Events:

None.

Limited Life Item Status:

SRCA 10W Lamp #1: 151.5 of 500 hours
SRCA 10W Lamp #2: 127.5 of 500 hours
SRCA 10W Lamp #3: 136.7 of 500 hours
SRCA 10W Lamp #4: 61.5 of 500 hours

SRCA 1W Lamp #1: 545.8 of 4000 hours
SRCA 1W Lamp #2: 276.3 of 4000 hours

Solar Diffuser Door: 1275 of 3022 Movements
Nadir Aperture Door: 530 of 1316 Movements
Space View Door: 436 of 1316 Movements